Searcher Prep & Review Time:

Online Time:

# Scientific and Technical Information Center

SEARCH REQUEST FORM	
Requester's Full Name: Teffe E Ruste Examiner #: 62 785 Date: 92-2005  Art Unit: 1657 Phone Number: 2-0969 Serial Number: 10/782 268  Location (Bldg/Room#): REA 3019 (Mailbox #): 3C 18 Results Format Preferred (circle): PAPER DISK	
To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:	
Title of Invention: Actuated Polyenglene Gland Esters	
Inventors (please provide full names): T. Tropag	_
Jury	_
Earliest Priority Date: 2-19-2004	
Search Topic: Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.	
For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with th appropriate serial number.	e
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(FILE 'REGISTRY' ENTERED AT 20:12:33 ON 29 AUG 2005)

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L12	0	SEA	SSS	SAM	L11				
L13	597	SEA	SSS	FUL	L11				
L14		STR							
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FILE 'HCAPLUS' ENTERED AT 20:24:22 ON 29 AUG 2005 L16 36 SEA ABB=ON PLU=ON L15 D STAT QUE L16 D IBIB ABS HITSTR L16 1-36

#### FILE HCAPLUS

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# Russel 10\_782268-History.trn

for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10 FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

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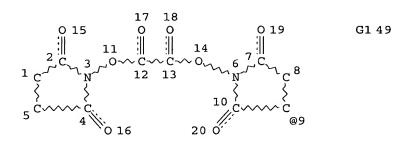
NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

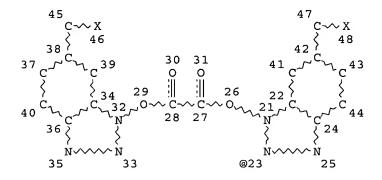
GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L13 597 SEA FILE=REGISTRY SSS FUL L11

L14 STR





VAR G1=23/9 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 49

STEREO ATTRIBUTES: NONE

L15 12 SEA FILE=REGISTRY SUB=L13 SSS FUL L14 L16 36 SEA FILE=HCAPLUS ABB=ON PLU=ON L15

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L16 ANSWER 1 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:238563 HCAPLUS

DOCUMENT NUMBER: 142:294340

TITLE: Compositions and methods using dendrimer-treated

microassays

INVENTOR(S): Huang, Haoqiang; Braman, Jeffrey Carl

PATENT ASSIGNEE(S): Stratagene California, USA

SOURCE: U.S. Pat. Appl. Publ., 20 pp., Cont. of U.S. Ser. No.

863,748, abandoned.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	AP:	PLICATION NO.		DATE
					-	
US 2005059068	A1	20050317	US	2004-938807		20040910
PRIORITY APPLN. INFO.:			US	2001-863748	В1	20010523
AR The precent invention	n nrow	idec a chemia	c a l	reactive curface	ahl	e to com

The present invention provides a chemical reactive surface able to covalently react with substances containing a hydroxyl group and/or amine group, comprising a solid surface having an activated dendrimer polyamine covalently bonded to said surface through a silane containing reagent, wherein the dendrimer polyamine can covalently bind the substance comprising a hydroxyl group and/or amino group. The present invention further provides a method for producing chemical reactive surfaces for binding moieties comprising a hydroxyl group and/or amine group, as well as kits comprising the chemical reactive surface of the invention.

IT 57296-03-4

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (compns. and methods using dendrimer-treated microassays)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:681425 HCAPLUS

DOCUMENT NUMBER: 141:207947

TITLE: Activated polyethylene glycol esters for biologically

active conjugates

INVENTOR(S): Tjoeng, Foe S.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT N	PATENT NO.			DATE			APPLICATION NO.					DATE		
US 20041 WO 20040			A1 20040819 A2 20040902				US 2004-782268 WO 2004-IB424					20040219 20040213		
WO 20040	074345		A3 20050120											
W:	AE, AE	AG, A	L, AL,	AM,	AM,	AM,	AT,	ΑT,	ΑU,	ΑZ,	ΑZ,	ΒA,	BB,	BG,
	BG, BR	BR, B	W, BY,	BY,	BZ,	BZ,	CA,	CH,	CN,	CN,	CO,	co,	CR,	CR,
	CU, CU	CZ, C	Z, DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EC,	EE,	EE,	EG,	ES,
	ES, FI	FI, G	B, GD,	GE,	GE,	GH,	GM,	HR,	HR,	HU,	HU,	ID,	IL,	IN,
	IS, JP	JP, K	E, KE,	KG,	KG,	KP,	KP,	KP,	KR,	KR,	KZ,	KZ,	KZ,	LC,
	LK, LR	LS, L	S, LT,	LU,	LV,	MA,	MD,	MD,	MG,	MK,	MN,	MW,	MX,	MX,
	MZ, MZ	NA, N	II											
RW:	BW, GH	GM, K	Œ, LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,
	BG, CH													
	MC, NL	PT, R	O, SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,

GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-448354P P 20030219

AB A method of producing an activated ester of polyethylene glycol (PEG), comprises the step of activating PEG with N,N'-disuccinimidyl oxalate or 1,1'-bis[6-(trifluoromethyl)benzotriazolyl] oxalate under the appropriate conditions. The polyethylene glycol carbonate active esters are useful for the PEGylation of biol. active and pharmaceutically useful peptides and proteins. The invention involves the use of activated carbonate and oxalate esters in the formation of polyethylene glycol mixed carbonate

active esters that then react with a linker or directly with a target peptide or protein.

IT 93605-83-5P

CN

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(activated polyethylene glycol esters for biol. active conjugates)

RN 93605-83-5 HCAPLUS

1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-(trifluoromethyl) - (9CI) (CA INDEX NAME)

L16 ANSWER 3 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:737777 HCAPLUS

DOCUMENT NUMBER: 139:255398

TITLE: Dimeric tissue factor (TF) antagonist for treatment of

coagulopathic related diseases

INVENTOR(S): Kjalke, Marianne; Jakobsen, Palle; Stennicke, Henning

Ralf

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE --------------\_\_\_\_\_ WO 2003076461 A2 20030918 WO 2003-DK151 20030312 20040318 WO 2003076461 A3

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003229018 20031211 US 2003-386898 A1 20030312 EP 1485476 EP 2003-709668 A2 20041215 20030312 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: DK 2002-373 A 20020312 P 20020319 US 2002-365935P W 20030312 WO 2003-DK151

AB The invention relates to pharmaceutical compns. comprising dimer FVII polypeptides which bind and inhibit two tissue factor (TF) mols. simultaneously and their use of in treatment or prophylaxis of thrombotic or coagulopathic related diseases including vascular and inflammatory responses.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(dimeric tissue factor (TF) antagonist for treatment of coagulopathic related diseases)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 4 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:422015 HCAPLUS

DOCUMENT NUMBER: 138:401044

TITLE: Feed additives and feed containing

alkylenedicarboxylic acids for silkworm and livestock

INVENTOR(S): Kamata, Masaki

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. -----\_ \_ \_ \_ ---------------JP 2003159008 A2 20030603 JP 2001-362535 20011128 PRIORITY APPLN. INFO.: JP 2001-362535 20011128 Additives for silkworm artificial feed and livestock feed contain (1) (a) ≥1 selected from alkylenedicarboxylic acids, asparagine, aspartic

acid, glutamine, glutamic acid, proline, hydroxyproline, and cystine and (b)  $\geq 1$  selected from alkaline inorg. Ca or Mg compds. and succinimide, (2) disuccinimidyl esters of alkylenedicarboxylic acids, or (3) succinimide or disuccinimidyl oxalate. Feed containing (1), (2), or (3) are also claimed. Feeding silkworm with feed, prepared by kneading a composition containing succinimide, defatted soybean, cellulose, vitamin mixture, choline chloride, okara,  $\beta$ -sitosterol, vitamin C, citric acid, and potato starch with H2O, for 9 days significantly increased body weight of 3rd-instar silkworm.

IT 57296-03-4

RL: AGR (Agricultural use); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses) (feed additives for silkworm and livestock containing alkylenedicarboxylic

acids, their disuccinimidyl esters, specific amino acids, Ca or Mg compds., and succinimide)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 5 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:386157 HCAPLUS

DOCUMENT NUMBER: 138:398400

TITLE: Dicarboxylic acid salt additives which facilitate DNA

amplification

INVENTOR(S): Kitabayashi, Masao; Komatsuhara, Shusuke; Nishiya,

Yoshiaki; Oka, Masanori

PATENT ASSIGNEE(S): Toyobo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003144169	A2	20030520	JP 2001-349173	20011114
WO 2003042383	A1	20030522	WO 2002-JP11884	20021114
W: US				
RW: AT, BE, BG	, CH, CY	, CZ, DE, DK	C, EE, ES, FI, FR, GB,	GR, IE, IT,
LU, MC, NL	, PT, SE	C, SK, TR		
EP 1452593	A1	20040901	EP 2002-780096	20021114
R: AT, BE, CH	, DE, DK	K, ES, FR, GE	G, GR, IT, LI, LU, NL,	SE, MC, PT,
IE, FI, CY	, TR, BG	CZ, EE, SK		
US 2005069887	A1	20050331	US 2004-495581	20040514
PRIORITY APPLN. INFO.:			JP 2001-349173	A 20011114
			JP 2002-311596	A 20021025
			WO 2002-JP11884	W 20021114
AR Additives for DNA	amplific	ation compri	ging an anion donor (	in particular

AB Additives for DNA amplification comprising an anion donor (in particular,

a dicarboxylic acid salt) effective in facilitating the synthesis of DNA in an enzymic reaction, are disclosed. Inorg. salts, alkaline salts, alkaline earth salts, or ammonium salts of dicarboxylic acid, such as oxalate ion, malonate ion and the maleic acid ion are effective. The reagent also includes primers, RNA or DNA template, reverse transcriptase or DNA polymerase, buffers and salts. Potassium oxalate, sodium oxalate, sodium malonate, and sodium maleate were effective in facilitating PCR reaction using various types of DNA polymerase.

IT 57296-03-4

RN

RL: MOA (Modifier or additive use); USES (Uses)
(dicarboxylic acid salt additives which facilitate DNA amplification)
57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:418143 HCAPLUS

DOCUMENT NUMBER: 138:158644

TITLE: 5-Aminosalicyclic acid permeability enhancement by a

pH-sensitive EVAL membrane

AUTHOR(S): Shieh, Ming-Jium; Lai, Ping-Shan; Young, Tai-Horng

CORPORATE SOURCE: College of Medicine and College of Engineering,

Institute of Biomedical Engineering, National Taiwan

University, Taipei, 10016, Taiwan

SOURCE: Journal of Membrane Science (2002), 204(1-2), 237-246

CODEN: JMESDO; ISSN: 0376-7388

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

A pH-sensitive membrane for colon-specific drug delivery was synthesized by the covalent bonding of glycine on the poly(ethylene-co-vinyl alc.) (EVAL) membrane via isocyanation of surface hydroxyl groups and subsequent conversion to activated ester. The processes of surface modification would not change the membrane structure under the observable detection sensitivity of the SEM. Both the EVAL membrane and the glycine-immobilized EVAL membrane appeared as fairly dense structures almost without any holes existing in the membrane. Permeation of 5-aminosalicylic acid (5-ASA) through the prepared membranes was studied at pH 2.0 and 7.4 at 37°. Regardless of the EVAL membrane and the glycine-immobilized EVAL membrane, the 5-ASA permeation at pH 2.0 was very conspicuously small, which agrees with the application of colon-specific drug delivery that drug is protected in the acidic environment. In contrast, the relative values of the 5-ASA permeation through the EVAL membrane and the glycine-immobilized EVAL membrane after 24 h at pH 7.4 and 2.0 were 6 and 41 times, resp. Clearly, the significant increase in the 5-ASA permeability of the glycine-immobilized EVAL membrane is suitable for local treatment of ulcerative colitis. Furthermore, the mechanism of 5-ASA permeation through the EVAL membrane and the glycine-immobilized EVAL membrane at pH 2.0 and 7.4 was discussed. This

study shows the 5-ASA permeability enhancement by the EVAL and the glycine-immobilized EVAL membrane in the neutral environment is ascribed to totally different mechanisms.

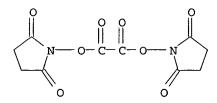
IT 57296-03-4D, reaction products with EVAL isocyanatohexa carbamate
 and glycine

RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(5-Aminosalicylic acid permeability enhancement by a pH-sensitive EVAL membrane)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 7 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:301532 HCAPLUS

DOCUMENT NUMBER: 136:309257

TITLE: Feed additives and feeds containing

alkylenedicarboxylic acids for silkworm and livestock

INVENTOR(S): Kamata, Masaki

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002119223	A2	20020423	JP 2000-316378	20001017
PRIORITY APPLN. INFO.:			JP 2000-316378	20001017
AB The feed additives	contair	either of	(1) (a) alkylenedicarbox	xylic acids
having even C numbe	er and	(b) inorg. a	alkaline Ca or Mg compds	. and/or

(2) disuccinimidyl esters of the dicarboxylic acids, or (3) succinimide or disuccinimidyl oxalate. Feeds containing the additives show feeding-stimulating and growth-promoting effect. A feed containing suberic acid and Ca(OH)2 was fed to silkworm to result in body weight after 9 days 38.9 mg, vs. 8.1 mg, for control.

IT 57296-03-4

succinimide,

RL: BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)

(feed additives for silkworm and livestock)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 8 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:676214 HCAPLUS

DOCUMENT NUMBER: 135:218713

TITLE: Electrophotographic photoconductor showing reduced

residual voltage and excellent image quality

INVENTOR(S): Takeshima, Motohiro; Nabeta, Osamu

PATENT ASSIGNEE(S): Fuji Electric Imaging Device Co. Ltd., Japan

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				-	
DE 10108488	A1	20010913	DE 2001-10108488		20010222
JP 2001249471	A2	20010914	JP 2000-62636		20000307
US 2001031410	A1	20011018	US 2001-794259		20010227
CN 1312491	Α	20010912	CN 2001-111217		20010307
PRIORITY APPLN. INFO.:			JP 2000-62636	Α	20000307

OTHER SOURCE(S): MARPAT 135:218713

AB The title electrophotog. photoconductor contains a charge transport substance represented by R1OCOXR2 (R1, R2 = aromatic hydrocarbon, aliphatic hydrocarbon, polycyclic aromatic ring, heterocycle; X = 0, C0, C00). The electrophotog. photoconductor shows reduced residual voltage and excellent image quality.

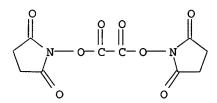
IT 57296-03-4

RL: DEV (Device component use); USES (Uses)

(charge transport compound in electrophotog. photoconductor showing reduced residual voltage and excellent image quality)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 9 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:228928 HCAPLUS

DOCUMENT NUMBER: 134:247248

TITLE: Bivalent inhibitor of FVIIa/tissue factor/FXa complex

and therapeutic use

INVENTOR(S): Freskgaard, Per-Ola; Jakobsen, Palle

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE	PATENT NO.						KIND DATE			APPLICATION NO.					DATE		
						-											
WO 20	0010	216	51		A1		2001	0329	1	WO 2	000-1	DK51	5		20000919		
T.	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	ио,	NZ,	PL,	PT,	RO,	RU,
		SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VN,
		YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM				
I	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
PRIORITY A	. :						DK 1999-1333				1	A 19990920					
US 1999-159773P										73P	]	P 1	9991	15			

A bivalent serine protease inhibitor of coagulation factor VIIa and factor AB Xa is provided which comprises: (i) a first serine protease inhibitor binding to factor VIIa; (ii) a linker moiety; and (iii) a second serine protease inhibitor binding to factor Xa. Also provided are a method for inhibiting the two different serine proteases factor VIIa and factor Xa simultaneously and selectively when the two serine proteases becomes localized on the membrane protein tissue factor (TF). The compds. and method are useful for prevention or treatment of FVIIa/TF-related diseases or disorders, e.g. deep venous thrombosis, arterial thrombosis, post surgical thrombosis, coronary artery bypass graft (CABG), percutaneous transdermal coronary angioplasty (PTCA), stroke, tumor metastasis, inflammation, septic chock, hypotension, ARDS, pulmonary embolism, disseminated intravascular coagulation (DIC), vascular restenosis, platelet deposition, myocardial infarction, angiogenesis, or the prophylactic treatment of mammals with atherosclerotic vessels at risk for thrombosis. Preparation of e.g. octanedioic acid bis-[(1-(1-(1-chloroacetyl-4guanidinobutylcarbamoyl)2-phenylethylcarbamoyl)2-phenylethyl)amide] is described.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction; bivalent inhibitor of FVIIa/tissue factor/FXa complex and
 therapeutic use)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L16 ANSWER 10 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN 2000:351493 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 133:18014 TITLE: Derivatization of support surfaces for binding biopolymers INVENTOR(S): Beier, Markus PATENT ASSIGNEE(S): Deutsches Krebsforschungszentrum Stiftung Des Offentlichen Rechts, Germany SOURCE: PCT Int. Appl., 29 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent German LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ -----\_ - - - - - -WO 2000029373 A2 20000525 WO 1999-DE3692 19991117 WO 2000029373 А3 20001228 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG DE 19853242 20000525 DE 1998-19853242 **A1** 19981118 20010912 EP 1999-962063 EP 1131281 A2 19991117 EP 1131281 В1 20050727 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO US 6905724 20050614 B1 US 2001-856341 19991117 PRIORITY APPLN. INFO.: DE 1998-19853242 A 19981118 WO 1999-DE3692 W 19991117 A functional group is activated on the surface of a support, e.g., microscopic glass slide or polypropylene membrane, by reaction with an activating reagent and then reacted with an amine component. A support with a dendritic polymer structure on its surface and the use of such support for binding biopolymers are also claimed. For example, amino-functional glass substrates (slides) were treated in sequence with 4-O2NC6H4OCOCl in CH2Cl2 in the presence of (Me2CH)2NEt, with tetraethylenepentamine in DMF, with 4-O2NC6H4OCOCl as above and, finally with 1,4-bis(3-aminopropoxy) butane in DMF to give a title substrate. 57296-03-4 IT

T 57296-03-4
RL: NUU (Other use, unclassified); USES (Uses)
(derivatization of support surfaces for binding biopolymers by activating support-bound functional groups with)

RN 57296-03-4 HCAPLUS

L16 ANSWER 11 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:191202 HCAPLUS

DOCUMENT NUMBER: 132:204063

TITLE: methods for mol. cloning using rolling circle

amplification involving applications of affinity tags

INVENTOR(S): Lizardi, Paul M.
PATENT ASSIGNEE(S): Yale University, USA
SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA				APPLICATION NO.						DATE							
						-											
WO	2000	0157	79		A2		2000	0323	WO 1999-US21291						19990915		
WO	2000	0157	79		A3		2000	0810									
	W:	ΑE,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
		DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,
		JP,	ΚE,	KG,	KΡ,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,
		MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,
		-			-			-			ZW,	-	-		•		-
			TJ,		•	•		•	·	•	·			•	•	•	
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	AT,	BE,	CH,	CY,	DE,
		DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		•	,	·
CA	2342	838			AA	•	2000	0323		CA 1	.999-:	2342	838		1	9990	915
AU	9959	250			A1						AU 1999-59250					9990	915
AU	7709	93			B2		2004	0311									
EP	1114	184			A2		2001	0711	]	EP 1	999-	9469	52		1	9990:	915
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO				•	-	-	•	•		·
US	6287	824	•	·	В1	·	2001	0911	1	US 1	999-	3962	81		1	9990	915
JP	2002	52504	19		T2		2002	0813		JP 2	2000-	5703	06		1	9990	915
	JP 2002525049 US 2002048761								1	US 2	2001-	8533	79		2	0010	511
PRIORITY						20020423			US 1998-100327P					1	P 1	9980	915
	<del>-</del>			-												9990	
											1999-1			_			
										-					-	0	

AB Disclosed are reagents and a method for efficient in vitro mol. cloning of nucleic acid mols. of interest. Because the method is entirely in vitro, it can be automated and scaled-up in ways that are not possible in cell-based mol. cloning. The method involves insertion of a nucleic acid mol. of interest in a linear vector to form a circular vector where one strand is continuous and the other strand is discontinuous (containing a gap). The second strand contains an affinity tag which is streptavidin or a reactive amine. The affinity target is phenylene diisothiocyanate, disuccinimidylcarbonate, disuccinimidyloxalate or dimethylsuberimidate. The first strand is separated from the by binding the affinity tag to a

substrate, denaturing the first and second strands prior to, simultaneous with, or following binding, and separating the first strand from the substrate. In this way the affinity tag is covalently coupled to the surface. The second strand of the linear vector contains at least one overlap, part of the overlapping portions of the second strand are complementary, and the 3'-end of the overlap extends beyond the part of the overlapping portions that are complementary. The continuous strand of the circular vector is then amplified by rolling circle replication, amplifying the inserted nucleic acid mol. in the process. The amplification is rapid and efficient since it involves a single, isothermic reaction that replicates the vector sequences exponentially. The amplification process is amenable to automation where multiple replications are carried out simultaneously in a small area. A replica of the amplification reactions is also made by transferring part of each amplification reaction to form a replica amplification reaction. In this way, any number or all of the amplification reactions are ordered as an array of reaction droplets or in an array of reaction vessels. The ligation reaction is divided by spreading the ligation reaction onto a surface to form a spread, and wherein the sep. amplification reactions are the locations of circular vectors on the surface after spreading. Hybridization probes are used to choose and retrieve specific clones. Tandem sequence DNA is amplified by strand displacement replication to form tertiary tandem sequence DNA and utilizes a DNA primer to do so. The amplified nucleic acid can be used for any purpose and in any manner that nucleic acid cloned or amplified by known methods can be used. This includes sequencing, probing, restriction anal., subcloning, transcription, hybridization or denaturation anal., further amplified, and storage for future use or anal. Convenient figures 1A, 1B, 1C, 2A, 2B, 3 and 4 are provides with further clarify the specific methods described here.

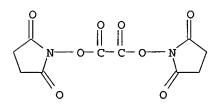
IT 57296-03-4

RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(affinity target as; methods for mol. cloning using rolling circle amplification involving applications of affinity tags)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 12 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:309643 HCAPLUS

DOCUMENT NUMBER: 131:126035

TITLE: Versatile derivatization of solid support media for

covalent bonding on DNA-microchips

AUTHOR(S): Beier, Markus; Hoheisel, Jorg D. CORPORATE SOURCE: Functional Genome Analysis, Deutsches

Krebsforschungszentrum, Heidelberg, D-69120, Germany

SOURCE: Nucleic Acids Research (1999), 27(9), 1970-1977

CODEN: NARHAD; ISSN: 0305-1048

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal LANGUAGE: English

AB A chemical was developed that permits on DNA-arrays both the covalent immobilization of pre-fabricated nucleic acids-such as oligonucleotides, PCR-products or peptide nucleic acid oligomers-and the in situ synthesis of such compds. on either glass or polypropylene surfaces. Bonding was found to be stable even after some 30 cycles of stripping. Due to a dendrimeric structure of the linker mol., the loading can be modified in a controlled manner and increased beyond the capacity of glass without neg. effects on hybridization efficiency. Also, the chemical warrants the modulation of other surface properties such as charge or hydrophobicity. Preferentially, attachment of nucleic acids takes place only via the terminal amino-group of amino-modified oligonucleotides or the terminal hydroxyl-group of unmodified mols. so that the entire mol. is accessible to probe hybridization. This derivatization represents a support chemical versatile enough to serve nearly all current forms of DNA-arrays or microchips.

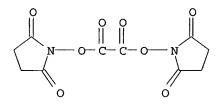
IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(surface activation for oligonucleotide immobilization with; versatile derivatization of solid support media for covalent bonding on DNA-microchips)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 13 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:696095 HCAPLUS

DOCUMENT NUMBER: 127:358760

TITLE: Synthesis of a bifunctional chelating agent,

(1S\*, 2S\*, 4R\*)-4-aminocyclohexyl-1, 2-diamino-N, N, N', N'-

tetraacetic acid, and general method of linker

introduction

AUTHOR(S): Gestin, J. F.; Benoist, E.; Loussouarn, A.; Mishra, A.

K.; Faivre-Chauvet, A.; Chatal, J. F.

CORPORATE SOURCE: INSERM U 463 (ex U 211), Chimie-immunochimie, Nantes,

44035, Fr.

SOURCE: New Journal of Chemistry (1997), 21(9), 1021-1026

CODEN: NJCHE5; ISSN: 1144-0546

PUBLISHER: Gauthier-Villars

DOCUMENT TYPE: Journal LANGUAGE: French

AB Indium-111 (111In) is a radioelement whose radiophys. characteristics are perfectly suitable for diagnostic applications, but are nevertheless limited by a high liver uptake. Undesirable liver uptake can be reduced either by using bifunctional chelating agents (BCA) to form stable chelates in vivo or by introducing linkers between the ligand and the

antibody that can serve as a target for specific hepatic enzymes. Various studies have shown that 111In chelate stability can be improved by the use of polyaminocarboxylic BCA and especially with 4-isocyanatocyclohexane-1,2diaminotetraacetic acid (4-ICE). The purpose of our study was to synthesize (1S\*, 2S\*, 4R\*)-4-aminocyclohexane-1, 2-diamino-N, N, N', N'tetraacetic acid, an analog of 4-ICE, associated with different bis-N-hydroxysuccinimide ester type bifunctional aliphatic linkers. propose a simple method for access to perfectly defined BCA with or without potentially metabolizable functions.

IT 57296-03-4P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of a bifunctional chelating agent aminocyclohexyldiaminotetraac etic acid and general method of linker introduction)

RN57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 14 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:97772 HCAPLUS

DOCUMENT NUMBER:

126:192686

TITLE:

Two-component chemiluminescent composition

INVENTOR(S):

Chopdekar, Vilas M.; Schleck, James R.; Guo, Cheng;

Hall, Amanda J.

PATENT ASSIGNEE(S):

Jame Fine Chemicals, Inc., USA

SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_\_ --------------US 5597517 Α 19970128 US 1996-640069 19960430 ZA 9703291 Α 19971114 ZA 1997-3291 WO 9741187 A1 19971106 WO 1997-US6662 19970418 AU, BB, BR, CA, CN, IL, IS, JP, KR, LK, MX, NO, SG, TT, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 9728064 **A1** 19971119 AU 1997-28064 19970418 EP 896610 Α1 19990217 EP 1997-922377 19970418 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI CN 1217010 Α 19990519 CN 1997-194168 19970418 CN 1103804 В 20030326 JP 2000509096 T2 20000718 JP 1997-538991 19970418

PRIORITY APPLN. INFO.: US 1996-640069 A 19960430 WO 1997-US6662 W 19970418

AB Chemiluminescent compns. comprise an oxalate component comprising an oxalate ester and a solvent, wherein the solvent comprises a propylene glycol dihydrocarbyl ether containing 1-3 propylene moieties and each hydrocarbyl moiety contains ≤8 carbon atoms and is independently selected from the group consisting of straight chain alkyl and branched chain alkyl groups; an activator component comprising a peroxide compound and a catalyst; and a fluorescer contained in the oxalate component, activator component, or in both the oxalate component and the activator component. The solvents used have a significantly greater solvating capacity for solvating the oxalate component than prior art solvents, allowing the overall volume of the two-component chemiluminescent compns. to be significantly reduced and a higher level of glow for a longer period of time to be attained together with significant cost redns.

IT 17447-57-3

RL: TEM (Technical or engineered material use); USES (Uses) (two-component chemiluminescent compns. using propylene glycol dihydrocarbyl ether solvents)

RN 17447-57-3 HCAPLUS

1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-CN (CA INDEX NAME)

L16 ANSWER 15 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:428429 HCAPLUS

DOCUMENT NUMBER: 125:87210

TITLE: Preparation of amino acid derivatives as

cholecystokinin receptor antagonists

INVENTOR (S): Ogawa, Masashi; Morita, Tadashi; Matsuda, Kiyoshi;

Iibuchi, Norihiro; Kidokoro, Shinpei Tobishi Pharmaceutical Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE: Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 710661	A1	19960508	EP 1995-401889	19950811
EP 710661	B1	19990331		
R: DE, FR, GB,	IT			
JP 08119940	A2	19960514	JP 1994-286138	19941027
JP 2796944	B2	19980910		
JP 08176144	A2	19960709	JP 1994-333776	19941219
US 5716958	Α	19980210	US 1995-513018	19950809
CN 1121515	Α	19960501	CN 1995-116200	19950906
CN 1056842	В	20000927		
PRIORITY APPLN. INFO.:			JP 1994-286138 A	19941027

JP 1994-333776 A 19941219

OTHER SOURCE(S):

MARPAT 125:87210

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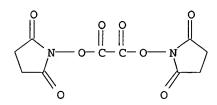
AB R3CONHCH[(CH2)mSnR2]COZCH(R1)2 [R1 = (cyclo)alkyl, Ph, pyridyl, etc.; R2 = carboxyphenyl, carboxypyridyl, carboxypyrazinyl, etc.; R3 = (un)substituted indolyl; Z = 1,4-piperidinylene, -piperazinylene; m = 1-3; n = 0 or 1] were prepared Thus, 1-benzhydrylpiperazine was amidated by (S)-ROCH2CH(NHCO2CMe3)CO2H (R = tetrahydropyranyl)(preparation given) and the deprotected and mesylated product thioetherified by Me 2-mercaptonicotinate to give, after N-deprotection and indole-2-carboxylic acid amidation, title compound (S)-I which had IC50 of 0.013 μM against CCK-induced guinea pig ileum contraction in vitro.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of amino acid derivs. as cholecystokinin receptor antagonists)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 16 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:164884 HCAPLUS

DOCUMENT NUMBER: 120:164884

TITLE: Synthesis of 1,1'-bis[6-(trifluoromethyl)benzotriazoly

1) phthalate as condensing agent

AUTHOR(S): Zhang, Mingzhu; Huang, Qun; Chen, Dehua

CORPORATE SOURCE: Shanghai Inst. Org. Chem., Shanghai, 200032, Peop.

Rep. China

SOURCE: Huaxue Shiji (1993), 15(5), 306-7

CODEN: HUSHDR; ISSN: 0258-3283

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB Reaction of 1-hydroxy-6-(trifluoromethyl)benzotriazole with oxalyl

chloride and phthaloyl chloride gave 1,1'-bis(6-

trifluoromethylbenzotriazolyl) oxalate(BTBO) and 1,1'-bis(6-

trifluoromethylbenzotriazolyl)-phthalate(BTBP). BTBO and BTBP were

excellent condensation reagents for synthesis of dipeptides.

IT 93605-83-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as condensing agent for peptide synthesis)

RN 93605-83-5 HCAPLUS

CN 1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-

(trifluoromethyl) - (9CI) (CA INDEX NAME)

L16 ANSWER 17 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:536079 HCAPLUS

DOCUMENT NUMBER: 115:136079

TITLE: Preparation of luminarins, i.e. derivatives of

tetrahydro-2,3,6,7,1H,5H,11H-(1)benzopyrano[6,7,8-ij]quinolizin-11-one as markers for organic compounds for detection by chemiluminescence or fluorescence

INVENTOR(S): Reveilleau, Pierre; Mahuzier, Georges; Chalom, Joseph;

Farinotti, Robert; Tod, Michel; Barre, Edith

PATENT ASSIGNEE(S): Laboratoires Eurobio, Fr. SOURCE: Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 432017	A1	19910612	EP 1990-403379	19901128
EP 432017	В1	19950816		
R: AT, BE, CH,	DE, DK	, ES, FR, G	B, GR, IT, LI, LU, N	L, SE
FR 2655045	A1	19910531	FR 1989-15789	19891130
FR 2655045	B1	19920327		
US 5151517	Α	19920929	US 1990-619189	19901127
PRIORITY APPLN. INFO.:			FR 1989-15789	A 19891130
OTHER SOURCE(S):	MARPAT	115:136079		

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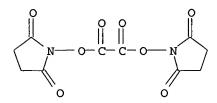
AB Title compds. I [R1 = NH(CH2)nR2, NH(CH2CH2O)mCH2CH2R3; n = 1-20; R2 = isothiocyanato, NHCOCH2X; X- = Cl, Br, iodo; m = 1-30, R3 = NH2, NHCO(CH2)pCO2R4, NHCO(CH2)pCONHNH2, as given for R2; R4 = succinimido; p = 1-10] are prepared as markers for detection (absorptimetric, fluorimetric, or chemiluminescence) of compds. containing primary or secondary amino, -SH, or -CO2- functions. Thus, cyclization of 8-hydroxyjulolidine with Et 3-oxoglutarate in EtOH containing ZnCl2 gave 56% ester I (R1 = OEt), which underwent 90% saponification, activation as I (R1 = succinimidyloxy) (21%), amidation by 1,4-diaminobutane (69%), and further amidation with iodoacetic anhydride (76%) to give Luminarine-5, i.e. I [R1 = NH(CH2)4NHCOCH2I] (II). In a borate buffer at pH 8, II was totally consumed by excess cysteamine (S-alkylation). Expts. using Coumarin 102, which bears the same ring nucleus as I, showed superior chemiluminescent yield vs. similar bicyclic Coumarin 1 and Coumarin 311.

IT 57296-03-4

RN

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of chemiluminescent and fluorescent markers)
57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 18 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:38559 HCAPLUS

Ι

DOCUMENT NUMBER: 114:38559

TITLE: Heterobifunctional cross-linking agents incorporating

perfluorinated aryl azides

AUTHOR(S): Crocker, Peter J.; Imai, Nobuyuki; Rajagopalan,

Krishnan; Boggess, Michael A.; Kwiatkowski, Stefan; Dwyer, Lori D.; Vanaman, Thomas C.; Watt, David S. Dep. Chem., Univ. Kentucky, Lexington, KY, 40506, USA

CORPORATE SOURCE: Dep. Chem., Univ. Kentucky, Lexington, KY, SOURCE: Bioconjugate Chemistry (1990), 1(6), 419-24

CODEN: BCCHES; ISSN: 1043-1802

DOCUMENT TYPE: Journal LANGUAGE: English

The title reagents have a photoactive tetrafluorinated Ph azide as the photoactive terminus and a chemical reactive succinimidyl ester as the electrophilic terminus. These reagents, succinimidyl N-(4-azido-2,3,5,6-tetrafluorobenzoyl)tyrosinate and succinimidyl 2-(4-azido-2,3,5,6-phenyl)thiazole-4-carboxylate, were designed to possess either 125I or 35S radiolabel, resp. The latter reagent was coupled to lysine-75 of calmodulin (CaM), and the radioiodinated monoadduct was photochem. crosslinked, in a Ca-dependent manner, to the porcine erythrocyte plasma membrane Ca2+, Mg2+-ATPase. t. Densitometry scans of the gel indicated a reproducible 22% crosslinkeing of the CaM with 1 of the Ca2+, Mg2+-ATPase bands. Since the purification of the Ca2+, Mg2+-ATPase results in micelles having Ca2+, Mg2+-ATPase with its CaM binding site oriented both to the inside and outside of the micelle, the amount of Ca2+, Mg2+-ATPase available for crosslinking was reduced by .apprx.50%, suggesting that the actual crosslinking efficiency was .apprx.40%.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with (azidotetrafluorophenyl)carboxythiazole)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 19 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:423889 HCAPLUS

DOCUMENT NUMBER: 113:23889

TITLE: Benzopyranoquinolizinones as markers for chemicals for

detection by chemiluminescence or fluorescence and

their preparation

INVENTOR(S): Mahuzier, Georges; Chalom, Joseph; Farinotti, Robert;

Tod, Michel

PATENT ASSIGNEE(S): Laboratoires Eurobio, Fr. SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT 1	NO.			KIND		DATE		AP	PLICAT	CION NC	).	DATE	
														-
WO	8912	052			A1		1989	1214	WO	1989-	FR277		19890602	2
	W :	DK,	JP,	NO,	US									
	RW:	AT,	BE,	CH,	DE,	FR,	GB,	IT,	LU, N	L, SE				
FR	2632	307			<b>A</b> 1		1989	1208	FR	1988-	-7355		19880602	2
FR	2632	307			B1		1991	1004						
CA	1312	604			<b>A1</b>		1993	0112	CA	1989-	-601413		19890601	L

EP 419542 A1 19910403 EP 1989-907177 19890602 EP 419542 B1 19930929 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE US 5082942 Α 19920121 US 1991-613644 19910131 PRIORITY APPLN. INFO.: FR 1988-7355 19880602 Α WO 1989-FR277 19890602 OTHER SOURCE(S): CASREACT 113:23889; MARPAT 113:23889 GI

$$Q^{1} = (NH)_{m}(CH_{2})_{n}(CO)_{mON}$$
 $Q^{2} = -ON$ 

II

AB The title compds. I (R1 = Q1; m = 0 or 1; n = 0-12; n = 0 when m = 0; or R1 = NH(CH2)nNH2) were prepared Reaction of I (R1 = OH) with succinimide derivative II in the presence of Et3N gave quinolizinone I (R1 = Q2) (II). For II, the limit of detection by fluorescence was 380 fmol.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, in preparation of marker for organic compds.)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 20 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:188924 HCAPLUS

DOCUMENT NUMBER: 112:188924

TITLE: Hydrazide-containing high-contrast silver halide

photographic materials

INVENTOR(S): Takamukai, Yasuhiko PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01283550	A2	19891115	JP 1988-115152	19880510
JP 2564170	B2	19961218		
PRIORITY APPLN. INFO.:			JP 1988-115152	19880510
GI				

$$\begin{bmatrix} -\operatorname{CONHNH} - \operatorname{NHCOCMe}_2 \end{bmatrix}_2 \quad \operatorname{II} \quad \circ \quad \circ \quad \circ$$

- AB Hydrazine derivs. are contained in photosensitive emulsion layer(s), and N,N'-disuccinimide oxalate or its derivative, in hydrophilic colloid layer(s), of the title materials. This provides stable formation of high-contrast images without formation of so-called pepper and other fogs in background. Thus, a Ag(Cl,Br) (KBr 40 mol%) mixed with a hydrazide I (20µmol/mol Ag) was applied on a PET base, and this layer was coated with a gelatin protective layer containing II (0.2 mmol/mol Ag). Exposed and developed film showed high sensitivity, high contrast, and total absence of pepper.
- IT 57296-03-4 125573-57-1 126531-49-5
  - RL: TEM (Technical or engineered material use); USES (Uses) (photog. hardening agent, hydrazide-containing photog. films containing, for prevention of fog)
- RN 57296-03-4 HCAPLUS
- CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

- RN 125573-57-1 HCAPLUS
- CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3-hydroxy-4-phenyl- (9CI) (CA INDEX NAME)

RN 126531-49-5 HCAPLUS

 $2,5 - Pyrrolidine dione, \ 1,1' - \hbox{\tt [(1,2-dioxo-1,2-ethane diyl)bis(oxy)]} bis \hbox{\tt [3,4-dioxo-1,2-ethane diyl)bis(oxy)]}$ CN bis(hydroxymethyl) - (9CI) (CA INDEX NAME)

L16 ANSWER 21 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:108471 HCAPLUS

DOCUMENT NUMBER: 112:108471

TITLE: Silver halide photographic sensitive materials

> containing new film curing agents Takamukai, Yasuhiko; Hanyu, Takeshi

INVENTOR(S): PATENT ASSIGNEE(S):

Konica Co., Japan Jpn. Kokai Tokkyo Koho, 9 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 01198744	A2	19890810	JP 1988-23484	19880203
PRIO	RITY APPLN. INFO.:			JP 1988-23484	19880203
AB	In a Ag halide phot	og. sen	sitive mater	rial comprised of a supp	port and
	≥1 photosensitive A	g halid	e emulsion-d	containing hydrophilic o	colloidal
	layer, gelatin in t	he hydr	ophilic coll	loidal layer is cured by	/ ≥1 of
	N,N'-disuccinimido	oxalate	compound or	r its derivative The fi	ilm curing agent
	prevents gelatin an	d Ag ha	lide dissolr	n. in a developer, conta	amination of a
	developer with gela	tin, an	d stains on	films. A Ag halide pho	otog. paper
	having Ag halide-co	ntainin	g gelatin em	nulsion layers containing	ng
N,N'	-disuccinimido			_	_
	oxalate as film cur	ing age	nt was expos	sed, developed, and fixe	ed, and
	gelatin dissoln. in	the de	veloper was	limited to very low lev	vel.
IT	57296-03-4 125573-5	5-9 125	573-56-0	-	

125573-57-1 125573-58-2 125573-59-3

RL: USES (Uses)

(silver halide gelatin emulsion layer containing, for prevention of gelatin dissoln. in developer)

57296-03-4 HCAPLUS RN

2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) CN

(CA INDEX NAME)

RN 125573-55-9 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3,4-dimethyl- (9CI) (CA INDEX NAME)

RN 125573-56-0 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3,4-dichloro-(9CI) (CA INDEX NAME)

RN 125573-57-1 HCAPLUS

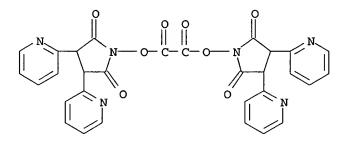
CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3-hydroxy-4-phenyl- (9CI) (CA INDEX NAME)

RN 125573-58-2 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3,4-diacetyl- (9CI) (CA INDEX NAME)

RN 125573-59-3 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3,4-di-2-pyridinyl- (9CI) (CA INDEX NAME)



L16 ANSWER 22 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:48466 HCAPLUS

DOCUMENT NUMBER: 112:48466

TITLE: Characterization of the reaction products of adult

human hemoglobin and disuccinimidyl oxalate

AUTHOR(S): Marini, M. A.; Christensen, S.; Snell, S.; Jessee, R.;

Medina, F.; Zegna, A.

CORPORATE SOURCE: Div. Blood Res., Letterman Army Inst. Res., Presidio

San Francisco, CA, 94129, USA

SOURCE: Biopolymers (1989), 28(12), 2195-200

CODEN: BIPMAA; ISSN: 0006-3525

DOCUMENT TYPE: Journal LANGUAGE: English

AB The reaction of both oxy and deoxy adult human Hb with the carboxyl activating agent disuccinimidyl oxalate (DSO) gave derivs. with decreased O binding (elevated P50); the P50's were slightly higher with the deoxyHb derivs. but their MetHb formation was slightly lower. The P50 values were maximum when equimolar concns. of Hb and DSO reacted. The O equilibrium curve showed a loss of cooperativity compared with native Hb which may not be desirable. There was little intermol. crosslinking, and the prepns. were eluted with the native Hb on gel exclusion columns. The derivs. had the same oncotic pressure as the native Hb, which is a disadvantage for their use as blood substitutes. On the other hand, the Hb derivs. were formed without the addition of other moieties and the P50 values were nearly the same as those of the normal Hb. The preparation can use both oxy and deoxyHb and equivalent amts. of DSO at room temperature with very little MetHb

formation and

good yields of separable products. The use the product as an emergency resuscitation fluid in shock therapy is discussed.

IT 57296-03-4DP, reaction products with human Hb

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, for resuscitation in shock)

RN 57296-03-4 HCAPLUS

2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) CN (CA INDEX NAME)

L16 ANSWER 23 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:603872 HCAPLUS

DOCUMENT NUMBER: 111:203872

TITLE: Construction of a stable flavin-gold electrode displaying very fast electron transfer kinetics

AUTHOR (S): Edwards, Timothy R. G.; Cunnane, Vincent J.; Parsons,

Roger; Gani, David

CORPORATE SOURCE: Dep. Chem., Univ. Southampton, Southampton, SO9 5NH,

SOURCE: Journal of the Chemical Society, Chemical

Communications (1989), (15), 1041-3

CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal English

LANGUAGE:

GI

$$\begin{array}{c|c} & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & \\ & & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & \\ & & \\ & \\ & \\ & \\ &$$

AB The bis-phenylthiourea phenethylisoalloxazine (I) was synthesized and was attached to the surface of Au through its thiourea side-chains. Cyclic voltammetric investigation of the redox properties of the system confirmed that the flavin was a stable adsorbed species and revealed that electron transfer between the conductor and the flavin was very fast.

IT 93605-83-5

RL: PRP (Properties)

(activation by, of isoalloxazine diacid derivative for subsequent reaction with (aminoethyl)phenylthiourea)

Ι

RN93605-83-5 HCAPLUS

1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-CN (trifluoromethyl) - (9CI) (CA INDEX NAME)

L16 ANSWER 24 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:595406 HCAPLUS

DOCUMENT NUMBER: 111:195406

A process for preparing succinimidyl carbamate or TITLE:

oxamate-containing chromatography carriers and their

use for enzyme mobilization and preparation of

chromatographic chiral stationary phases

INVENTOR(S): Ogura, Haruo; Takeda, Kazuisa; Iwaki, Kazuo; Yoshida,

Sadahiro; Futamura, Noriyuki; Kinoshita, Toshio

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63232846	A2	19880928	JP 1987-64119	19870320
PRIORITY APPLN. INFO.:			JP 1987-64119	19870320
OTHER SOURCE(S).	маррат	111.195406		

Ι

GI

The title active esters, useful as activated carriers for anal., enzyme AB immobilization, and preparation of chromatog. chiral stationary phases, are prepared by reaction of amino-containing chromatog. carriers, more specifically aminopropyl- or alkylaminopropyl-containing silica gel, with N,N'-disuccinimidylcarbonate or N,N'-disuccinimidyloxalate. Thus, 0.5%

N,N'-disuccinimidyloxalate in MeCN was passed at 0.5 mL/h for 3 h through a slurry-packed column (6.0 + 100 mm) of Nucleosil 5-NH2 (aminopropyl silica gel) (Nagel company) followed successively by 0.5% pentaethylenehexamine in MeCN at 0.5 mL/h for 3 h and 0.5% (S)-(-)-succinimido-1-(1-naphthyl)ethylcarbamate in MeCN at 0.5 mL/h for 5 h and throughly washed with MeCN to give a chiral stationary phase-packed column for high-performance liquid chromatog. N-(p-Bromophenylcarbamyl) derivs. of 9 DL-amino acids, e.g. threonine, tyrosine, and isoleucine, were resolved by the above HPLC column using 0.15 M AcONa (pH 5)/MeCn (30/70) as a mobile phase.

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (acylation by, of nucleosil 5-NH2)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 25 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:37800 HCAPLUS

DOCUMENT NUMBER: 108:37800

TITLE: An improved synthesis of 1,3-dihydro-1-methyl-5-phenyl-

2H-pyrido[3,4-e]-1,4-diazepin-2-one via ortho-directed

lithiation of 3-[(tert-butylcarbonyl) - and
3-[(tert-butoxycarbonyl)amino)pyridine]

AUTHOR(S): Fiakpui, Charles Y.; Knaus, Edward E.

CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB,

T6G 2N8, Can.

SOURCE: Canadian Journal of Chemistry (1987), 65(6), 1158-61

CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:37800

GΙ

The ortho-directed lithiation of the title compds. I (R = CMe3, OCMe3) with alkyllithiums and benzoylation with PhCONEt2 followed by acid hydrolysis gave 63-66% 3-amino-4-benzoylpyridine (II). Amidation of R1NHCH2CO2H (R1 = PhCH2O2C, Me3CO2C) with II afforded[[(aminomethyl)carbon

yl]amino]benzoylpyridines III (same R1). Acid-catalyzed hydrolysis and cyclocondensation of III, followed by methylation gave pyridodiazepinone IV in 36% overall yield from I.

IT 93605-83-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(coupling reagent, for acylation of aminobenzoylpyridine with amino acid derivative)

RN 93605-83-5 HCAPLUS

CN 1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 26 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:84339 HCAPLUS

DOCUMENT NUMBER: 106:84339

TITLE: A synthesis of succinimides and glutarimides from

cyclic anhydrides

AUTHOR(S): Kometani, Tadashi; Fitz, Tony; Watt, David S.

CORPORATE SOURCE: Dep. Chem., Toyama Natl. Coll. Technol., Toyama,

930-11, Japan

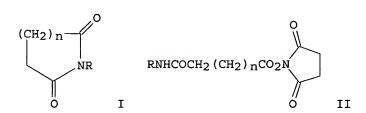
SOURCE: Tetrahedron Letters (1986), 27(8), 919-22

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:84339

GΙ



AB The transformation of cyclic anhydrides to their corresponding imides I (n = 1, R = Bu, Ph, CH2Ph; n = 2, R = Bu, Ph, CH2Ph, CHMePh) involves a mild three-step sequence: reaction with a primary amine, conversion of the

intermediate monoamide to an N-hydroxysuccinimidyl ester II using N,N'-disuccinimidyl oxalate, and cyclization by heating II in trichloroethylene in the presence of 4-(dimethylamino)pyridine.

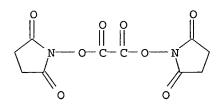
IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(condensation of, with glutaramic acids, succimidyl esters from)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 27 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:29378 HCAPLUS

DOCUMENT NUMBER: 106:29378

TITLE: Synthesis of 2-phenylthiazolidine-4-carboxylic acid

derivatives and investigation of their radioprotective

properties

AUTHOR(S): Pavlova, L. A.; Komarova, T. V.; Davidovich, Yu. A.;

Rogozhin, S. V.; Puchkova, S. M.; Tuzhilkova, T. N.

CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1986), 20(9),

1083-8

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 106:29378

AB A number of derivs. of 2-phenylthiazolidine 4-carboxylic acid were prepared, and their toxicities and radioprotectant activities in mice were determined

IT 57296-03-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with butyloxycarbonylphenylthiazolidincarboxylic acid)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 28 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:88559 HCAPLUS

DOCUMENT NUMBER: 104:88559

TITLE: Triazolyl oxalate deriv

INVENTOR(S):

Okura, Haruo; Takeda, Kazuisa

PATENT ASSIGNEE(S):

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60166670	A2	19850829	JP 1984-21998	19840210
PRIORITY APPLN. INFO.:			JP 1984-21998	19840210

OTHER SOURCE(S):

CASREACT 104:88559

GΙ

AB Title compound (I), useful for activating amino acids in peptide synthesis, was prepared Thus, refluxing chlorobenzene derivative II with NH2NH2.H2O for

24

h gave 95.8% III, which was treated with (COCl)2 under stirring to give 75% I. Treating Z-Ala-OH (Z=PhCH2O2C) with I in the presence of pyridine gave alanine ester IV, which was stirred with H-Ala-OEt.HCl in the presence of NEt3 for 3-5 h to give 100% Z-Ala-Ala-OEt.

IT 93605-83-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as activating agent for amino acids)

RN 93605-83-5 HCAPLUS

CN 1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 29 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:422924 HCAPLUS

DOCUMENT NUMBER: 103:22924

TITLE: Activating agents for amino acids

PATENT ASSIGNEE(S): Okura, Haruo, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60013757	A2	19850124	JP 1983-118111	19830701
PRIORITY APPLN. INFO.:	AZ	19030124	JP 1983-118111	19830701

OTHER SOURCE(S): CASREACT 103:22924 (RO2C)2 I [R = succinimido, 1H-benzotriazol-1-yl (II), etc.] were prepared as activation agents for peptide coupling reactions. Thus, 25.4 g (ClCO)2 was added to a solution of 13.5 g 1-hydroxy-1H-benzotriazole in dioxane/THF to give, after several minutes-several hours, 95% II. Z-Phe-OH (Z = PhCH2O2C) was coupled with H-Gly-OEt.HCl by II in MeCN containing pyridine and Et3N to give 96.4% Z-Phe-Gly-OEt.

IT 17447-57-3P 57296-03-4P 89028-39-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as activating agent for amino acid in peptide coupling reactions)

17447-57-3 HCAPLUS RN

1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-CN (CA INDEX NAME)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

RN 89028-39-7 HCAPLUS

CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3a,4,7,7a-tetrahydro-(9CI) (CA INDEX NAME)

L16 ANSWER 30 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:422922 HCAPLUS

DOCUMENT NUMBER: 103:22922

TITLE: Bis(N-hydroxysuccinimide) ester of oxalic acid as a

reagent for the synthesis of N-hydroxysuccinimide

esters of N-substituted amino acids

INVENTOR(S): Komarova, T. V.; Davidovich, Yu. A.; Rogozhin, S. V.

PATENT ASSIGNEE(S): Institute of Heteroorganic Compounds, Academy of

Sciences, U.S.S.R., USSR

SOURCE: U.S.S.R. From: Otkrytiya, Izobret. 1985, (1), 96.

CODEN: URXXAF

DOCUMENT TYPE: Patent LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

SU 1133272 A1 19850107 SU 1983-3603989 19830428
PRIORITY APPLN. INFO.: SU 1983-3603989 19830428

OTHER SOURCE(S): CASREACT 103:22922

GΙ

AB Title ester I is recommended as a reagent for the synthesis of N-hydroxysuccinimide esters of N-substituted amino acids.

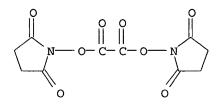
IT 57296-03-4P

RL: PREP (Preparation)

(reagent for synthesis of hydroxysuccinimide esters of N-substituted amino acids)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)



L16 ANSWER 31 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:62573 HCAPLUS

DOCUMENT NUMBER: 102:62573

TITLE: 1,1'-Bis[6-(trifluoromethyl)benzotriazolyl] oxalate

(BTBO): a new reactive coupling reagent for the synthesis of dipeptides, esters, and thio esters

AUTHOR(S): Takeda, Kazuyoshi; Tsuboyama, Kanoko; Yamaquchi,

Keiko; Ogura, Haruo

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Journal of Organic Chemistry (1985), 50(2), 273-5

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 102:62573
GI For diagram(s), see printed CA Issue.

AB The title compound (I) was prepared by cyclizing toluene II with H2NNH2 in refluxing 99% EtOH for 24 h and treating the resulting benzotriazole III with (COCl)2 in dry ether at room temperature I was used as a coupling reagent for the synthesis of dipeptides PhCH2O2C-X-X1-OEt (X = X1 = Ala; X = Ala, Phe, Val, X1 = Gly) in 70-99% yields. I was also used as a coupling reagent for the synthesis of esters and thioesters. With I active esterifications proceeded faster than with other previously reported

reagents. 93605-83-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as coupling reagent for preparation of peptides and esters

and

IT

thioesters)

RN 93605-83-5 HCAPLUS

CN 1H-Benzotriazole, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L16 ANSWER 32 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:121575 HCAPLUS

DOCUMENT NUMBER: 100:121575

TITLE: Studies on activating methods of functional groups.

Part IX. A convenient synthesis of peptide using

oxalates

AUTHOR(S): Takeda, Kazuyoshi; Sawada, Izumi; Suzuki, Akira;

Ogura, Haruo

CORPORATE SOURCE: Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SOURCE: Tetrahedron Letters (1983), 24(41), 4451-4

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal LANGUAGE: English

GI

AB N-Protected amino acids were coupled with amino acid esters or amino acids by oxalates I (R = R1 = H, RR1 = benzo), II (R2 = H, Cl), and III in MeCN to give the corresponding dipeptides in good yields (64-100%) via active esters. I, II, and III were prepared by treating ClCOCOCl with the appropriate N-hydroxy imides or 1-hydroxybenzotriazole derivs.

IT 17447-57-3P 57296-03-4P 89028-39-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as peptide coupling reagent)

RN 17447-57-3 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-(9CI) (CA INDEX NAME)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & \circ & \circ & \circ \\
 & \circ & \circ &$$

RN 89028-39-7 HCAPLUS

CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis[3a,4,7,7a-tetrahydro-(9CI) (CA INDEX NAME)

L16 ANSWER 33 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:584758 HCAPLUS

DOCUMENT NUMBER: 85:184758

TITLE: Chemiluminescence

INVENTOR(S): Bollyky, Laszlo J.; Weitman, Robert H.

PATENT ASSIGNEE(S): American Cyanamid Co., USA

SOURCE: U.S., 11 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3978079	Α	19760831	US 1974-491450	19740724
US 3909440	Α	19750930	US 1969-886395	19691218

PRIORITY APPLN. INFO.:

US 1966-547761

A2 19660505

US 1969-886395

A3 19691212

US 1972-223793 A1 19720204

AB Chemiluminescent compns. for light-emitting devices for the range 350-800 µm were obtained by mixing the following: (1) an oxalyl-type O-oxalylhydroxylamine or another compound of the typical oxalyl-type O-acylhydroxylamine structure; (2) a hydroperoxide; (3) a fluorescent compound; and (4) a diluent. Thus, N-hydroxyphthalimide 1.63 g was dissolved in 100 ml of MeOCH2CH2OMe and during rapid stirring oxalyl chloride 0.43 ml and Et3N 1.4 ml were added at 25°. After 1 hr stirring the mixture was evaporated to dryness under vacuum and the solid residue was digested 3 times with 30 ml portions of CHCl3 to yield diphthalimido oxalate (I) m.p. 233-4° in 42% yield. Approx. 3.5 mg of I was added to a 5 ml solution of .apprx.1 mg of 9,10-diphenylanthracene and 0.2 ml of anhydrous H2O2 in anhydrous MeOCH2CH2OMe at 25°. The composition showed strong luminescence intensities when subjected to qual. chemiluminescent tests.

IT 17447-57-3 57296-03-4 RL: PRP (Properties)

(chemiluminescent compns. containing)

RN 17447-57-3 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-(9CI) (CA INDEX NAME)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 34 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:600124 HCAPLUS

DOCUMENT NUMBER: 83:200124

TITLE: Chemiluminescence from O-oxalylhydroxyl amine

compounds

INVENTOR(S): Bollyky, Laszlo J.; Whitman, Robert H.

PATENT ASSIGNEE(S): American Cyanamid Co., USA

SOURCE: U.S., 11 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

#### PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3909440	Α	19750930	US 1969-886395	19691218
US 3978079	Α	19760831	US 1974-491450	19740724
PRIORITY APPLN. INFO.:			US 1966-547761 A	2 19660505
			US 1969-886395 A	3 19691212
			US 1972-223793 A	1 19720204

AB A chemiluminescent composition was obtained by mixing an oxalyl-type O-oxalylhydroxylamine or another compound of the oxalyl-type O-acylhydroxylamine structure, a hydroperoxide, a fluorescent compound, and a diluent. Thus, N-hydroxyphthalimide 1.63 g was dissolved in 1,2-dimethoxyethane 100 ml. and to the rapidly stirred solution, oxalyl chloride 0.43 and Et3N 1.4 ml. was added at 25°. After stirring the mixture for 1 hr, evaporating to dryness under vacuum, and digesting the solid residue 3 times with 30-ml. portions of CHCl3, diphthalimido oxalate (I), m.p. 233-4° was obtained in 42% yield. Strong chemiluminescent intensities were obtained when I .apprx.3-5 mg were added to a 5 ml. solution of 9-10 diphenylanthracene .apprx.1 mg and anhydrous H2O2 0.2 ml. in anhydrous 1,2-dimethoxyethane at 25°.

IT 17447-57-3 57296-03-4 RL: PRP (Properties)

(chemiluminescent composition containing)

RN 17447-57-3 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-(9CI) (CA INDEX NAME)

RN 57296-03-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 1,1'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis- (9CI) (CA INDEX NAME)

L16 ANSWER 35 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:10954 HCAPLUS

DOCUMENT NUMBER: 70:10954

TITLE: Chemiluminescence from the reaction of phthalimido

oxalate with hydrogen peroxide and fluorescent

compounds

AUTHOR(S): Bollyky, Laszlo J.; Whitman, R. H.; Roberts, Bernard

G.

CORPORATE SOURCE:

Amer. Cyanamid Co., Stamford, CT, USA

SOURCE:

Journal of Organic Chemistry (1968), 33(11), 4266-7

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI For diagram(s), see printed CA Issue.

AB Phthalimido oxalate (I) (10-3M) reacts with H2O2 (0.024M) and 9,10-diphenylanthracene in di-Me phthalate and chemiluminescent light is produced; the quantum yield is 0.087 einstein mole-1. The quantum yield decreases when the concns. of I and H2O2 are increased.

IT 17447-57-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with 9,10-diphenylanthracene and hydrogen peroxide,
 chemiluminescence in relation to)

RN 17447-57-3 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-(9CI) (CA INDEX NAME)

L16 ANSWER 36 OF 36 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1968:21847 HCAPLUS

DOCUMENT NUMBER:

68:21847

TITLE:

Preparation of chemiluminescent compounds

PATENT ASSIGNEE(S):

American Cyanamid Co. Neth. Appl., 49 pp.

SOURCE:

CODEN: NAXXAN

DOCUMENT TYPE:

Patent

LANGUAGE:

Dutch

FAMILY ACC. NUM. COUNT:

: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6612653	Α	19670309	NL 1966-12653	19660908
US 3399137	A	19680827	US 1965-485920	19650908
US 3470103	Α	19690930	US 1965-489748	19650923
US 3400080	Α	19680903	US 1966-520044	19660112
US 3442815	A	19690506	US 1966-520052	19660112
SE 304974	В	19681014	SE 1966-12094	19660908
DE 1792774	A1	19750619	DE 1967-1792774	19660908
DE 1792774	B2	19810611		
DE 1792774	C3	19820513		
DE 1795795	A1	19750619	DE 1967-1795795	19660908
DE 1592824	B2	19810625	DE 1966-A53455	19660908
DE 1592824	C3	19820408		
US 3804891	A	19740416	US 1971-145569	19710520
NL 167462	В	19810716	NL 1976-14490	19761228
NL 7614490	Α	19770429		
NL 167462	С	19811216		
PRIORITY APPLN. INFO.:			US 1965-485920	A 19650908
			US 1965-489748	A 19650923

US	1965-491896	Α	19650930
US	1966-520044	Α	19660112
US	1966-520052	Α	19660112
US	1966-547761	Α	19660505
US	1966-547782	Α	19660505
US	1965~425599	A2	19651113
NL	1966-12653		19660908
US	1968-737307	A3	19680617

GI For diagram(s), see printed CA Issue.

Chemiluminescent compns. are prepared Ph3CCO2C(0)C(0)O2CCPh3 (3 mg.) was AB added to 1 mg. 9,10-diphenylanthracene, 0.25 ml. H2O, and 0.5 ml. 90% aqueous H2O2 in 5 ml. 1,2-dimethoxyethane at 25°. A strong blue light was emitted during 15-20 min. Addition of KOH diminishes the chemiluminescence. Similar mixts. were prepared with diacetic oxalic anhydride; dilauric oxalic anhydride; bis(4-methoxybenzoic oxalic anhydride; 2,2',4,4'tetranitrooxanilide; N,N'-bis(phenylsulfonyl) oxanilide; bis(4-nitrophthalyl)oxamide; bis-1-imidazolyl)glyoxal; 2,4-dinitrophenyl oxalate; bis(1,2-dihydro-2-oxo-1-pyridyl)glyoxal (I); bis(5-oxo-1,5dihydro-1-quinolyl)glyoxal diphthalimido oxalate dimaleimido oxalate and dipiperidyl oxalate I is prepared by adding 2.2 ml. oxalyl chloride and 5.05 g. triethylamine to a stirred solution of 4.76 g. 2-hydroxypyridine in 150 ml. 1,2-dimethoxyethane. After 1 hr., the solvent is distilled off, 25 ml. CHC13 added and distilled off, and the residue recrystd. from benzene, yielding 2.76 g. I, m. 164-74°. Also, 10 ml. 1M aqueous Na2O2 was added to 0.2 g. 9,10-diphenyl-9,10-dihydroanthracene-9,10-dicarboxylic anhydride in 10 ml. tetrahydrofuran. Blue light was emitted. Similarly, chemiluminescent mixts. were prepared with 9,10-dichlorocarbonyl-9,10diphenyl-9,10-dihydroanthracene; and 9,10-bis(4-nitrophenyloxycarbonyl)-9,10-diphenyl-9,10-dihydroanthracene.

IT 17447-57-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 17447-57-3 HCAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 2,2'-[(1,2-dioxo-1,2-ethanediyl)bis(oxy)]bis-(9CI) (CA INDEX NAME)

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